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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/960,252	09/21/2001	David L. Brugman	LUT 2 0078 Brugman 2-2-2-	4331	
7590 12/27/2004			EXAMINER		
Richard J. Mir	nnich, Esq.	AL AUBAIDI, RASHA S			
Fay, Sharpe, Fagan, Minnich & McKee, LLP 1100 Superior Avenue			ART UNIT	PAPER NUMBER	
Seventh Floor			2642	<u> </u>	
Cleveland, OH 44114-2518			DATE MAILED: 12/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

							
Office Action 0		Applica			Applicant(s)		
		09/960,	,252	BRUGMAN ET AL	BRUGMAN ET AL.		
	Office Action Summary	Examin	er	Art Unit			
			S AL-Aubaidi	2642			
Period fe	The MAILING DATE of this communion Reply	nication appears on t	he cover sheet w	ith the correspondence ad	ldress		
THE - Exte after - If the - If No - Failt Any	MAILING DATE OF THIS COMMUN ensions of time may be available under the provision: r SIX (6) MONTHS from the mailing date of this com- e period for reply specified above is less than thirty (2) Deriod for reply is specified above, the maximum source to reply within the set or extended period for repl- reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no munication. days, a reply within the sitatutory period will apply and y will, by statute, cause the a	event, however, may a latutory minimum of thir will expire SIX (6) MON pplication to become AB	reply be timely filed ty (30) days will be considered timel ITHS from the mailing date of this or BANDONED (35 U.S.C. § 133).	y. ommunication.		
Status							
1)[Responsive to communication(s) file	ed on <u>31 August 200</u>	<u>04</u> .				
2a)⊠	This action is FINAL .	2b) ☐ This action is	non-final.				
3).	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠	Claim(s) <u>1-24</u> is/are pending in the 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-24</u> is/are rejected. Claim(s) <u>1-12</u> is/are objected to. Claim(s) are subject to restrict	are withdrawn from c		,			
Applicat	ion Papers						
	The specification is objected to by the						
10)	The drawing(s) filed on is/are						
	Applicant may not request that any obje						
11)	Replacement drawing sheet(s) including The oath or declaration is objected to						
Priority (under 35 U.S.C. § 119						
a).	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have be documents have be of the priority documents Bureau (PCT Ro	een received. een received in A nents have been ule 17.2(a)).	pplication No received in this National	Stage		
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)		4) Interview S	Summary (PTO-413)			
3) 🔲 Infori	e of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	PTO-948) PTO/SB/08)		s)/Mail Date nformal Patent Application (PTO 	9-152)		

Art Unit: 2642

Response to Amendment

Claim Objections

1. Claim 1 is objected to because of the following informalities: claim 1 recites the limitation "monitor connection" on page 3, line 6 of the amendment filed 08/31/2004. It is unclear to the examiner by using the limitation "monitor connection" whether the applicant is claiming a "connection" or a "monitor". It is believed that applicant is attempting to claim a "monitor" not a "connection". Also, on the same page, line 6 the limitation "out of band" should be changed to "out-of-band".

Claim 13 recites the limitation "out of band" on page 4, line 21. This limitation should be changed to "out-of-band". Same scenario should be applied to claim 22, which recite the limitation "out of band" on page 6, line 4. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2642

Claim 1 is not understood because the components "host telecommunications switch", "controller", "PSTN", and "RSM" appear to be unrelated. For example, it is unclear how the PSTN and the RSM relate to the other components.

Dependent claims 2-12 are rejected for the same reason because they depend from rejected claim 1.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 2642

5. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patel in view of Hamlen (US PAT # 5,488,655).

Regarding claim 1, Patel teaches an apparatus comprising: a monitor connection (the "monitor" reads on emergency call monitor 110 in end office 102, Fig. 1) for receiving out of band signaling (reads on SS7, see col.3, lines 22-23) from a host telecommunications switch (reads on 911 office 104, Fig. 1), and a controller (reads on processor 202, see Fig. 2 and col.3, lines 55-63) coupled to the monitor connection (see Fig. 2, processor 202 is coupled to call monitor 204) configured to monitor traffic (see col.3, lines 55-63) between the publicly switched telephone network (between telephone 112 and end office 102, PSTN is inherent but not shown, see col. 2, lines 55-58) and a remote switching module (RSM reads on PSAP 106, see col.2, 51-53).

Patel does not exactly teach that when the controller monitors the traffic between PSTN and RSM it compiles usage data as well.

However, Hamlen teaches controlling the traffic in selected links of the Public Switched Telephone Network (PSTN). The number of selected PSTN links, which are available for use, are determined at a predetermined time through the use of an appropriate traffic measurement system. Thereafter, a customer usage rate is determined for the selected PSTN links. The determined rate corresponds to the number of selected links, which are available for use. An electrical signal is generated

Art Unit: 2642

for receipt by the user and which contains information corresponding to the determined customer usage rate (see abstract and col. 5, lines 31-49).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the feature of determining a customer usage rate, as taught by Hamlen, into the Patel system in order to provide statistics, which may enhance the efficiency of the system.

Claims 13 and 22 are rejected for the same reasons as discussed above with respect to claim 1. Also, the claimed limitation of "computer program product" as recited in claim 22 reads on the software program that runs on the switching module 402, see col. 5, lines 5-11.

Claim 2 is rejected for the same reasons as discussed above with respect to claim 1. In addition, the claimed "umbilical link" reads on trunk 114, see Fig. 1, col. 2, lines 51-53, and col.3, lines 17-22).

Claims 3 and 16 recite the limitation of a "controller is configured to monitor called number information within out of band signaling from the host telecommunications switch". Basically all calls information including calling origination information and called destinations information must be analyzed and treated.

Therefore, monitoring the called number information is inherent; see also background of

Art Unit: 2642

the invention.

Regarding claim 4, Patel teaches the controller (204, Fig.2) is configured to monitor (via the monitor 208) calling number information within out of band signaling from the host telecommunications switch (this simply reads on determining the call type, such as 911 calls, see col.4, lines 11-30 and col.5, lines 10-23).

Regarding claims 5 and 17, Patel teaches the controller is configured to monitor originating point codes within the out of band signaling from the host telecommunications switch (see col.5, lines 9-28).

Regarding claim 6 and 18, Patel teaches the controller is configured to monitor destination point codes within the out of band signaling from the host telecommunications switch (this reads on monitoring if this is a 911 call or not).

Regarding claim 7, Patel teaches the controller (202) is configured to report incoming usage ("track the progression of the calls") to the remote switching module from all other switches within the PSTN.

Claims 8-9 and 19-21 are rejected for the same reasons as discussed above with respect to claim 7.

Art Unit: 2642

Regarding claim 10, Patel teaches the controller is configured to report usage of the umbilical link for calls between lines terminated by the remote switching module (see col.3, lines 29-39).

Regarding claims 11-12, Patel teaches the controller (202) is configured to report total usage related to each originating point code for calls terminating at the remote switching module (see col.4, lines 18-41).

Regarding claims 14-15 and 23-24, Patel teaches the controller (202) compiling call related data associated with the calls of interest and providing reports related to the calls of interest (this reads on tracking the call records and determining the type of call and whether it is a emergency call or not, see col.3, lines 55-63).

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2642

Yost et al (US PAT # 6,256,490) teaches statistical analysis of a traffic history between a base station and mobile switching center (see abstract of the invention).

Nolting et al (US PAT # 6,298,123) teaches traffic tracking and analysis. The analysis preferably entails analysis of usage data and traffic patterns (see abstract).

Mottishaw et al (US PAT # 6,721,284) teaches generating service detailed record, which is created for telephone service carried over a packet data network (see abstract). Mottishaw also teach there is detailed service usage information in the service records, which can be provided to customers for use in their internal accounting (see col. 8, lines 45-50).

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2642

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rasha S AL-Aubaidi whose telephone number is (703) 605-5145. The examiner can normally be reached on Monday- Friday from 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad F Matar, can be reached on (703) 305-4731. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Examiner

Rasha S. Al-Aubaidi

12/21/2004

AHMAD F. MATAR
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2700